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DECEMBER 19, 2001

PTAS

CHIRON CORPORATION
ANNE S. DOLLARD
PO BOX 8097
MAIL STOP R-3
EMERYVILLE, CA 94662

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov



101877693A

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RECORDATION DATE: 10/09/2001

REEL/FRAME: 012246/0552
NUMBER OF PAGES: 14

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:
POLO, JOHN

DOC DATE: 11/02/2000

ASSIGNEE:
GREER, CATHERINE

DOC DATE: 11/02/2000

ASSIGNEE:
CALDERON-CACIA, MARIA

DOC DATE: 06/28/2001

ASSIGNEE:
VEGA, DAN DEL LA, JR.

DOC DATE: 11/07/2000

ASSIGNEE:
DUBENSKY, THOMAS, JR.

DOC DATE: 09/04/2001

ASSIGNEE:
BELL, BARBARA

DOC DATE: 09/30/2001

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12/27/01. on
ASD
PP 15900.001

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012246/0552 PAGE 2

ASSIGNEE:

CHIRON CORPORATION
4560 HORTON STREET
MAIL STOP R-3
EMERYVILLE, CALIFORNIA 94608

SERIAL NUMBER: 60208376
PATENT NUMBER:

FILING DATE: 05/31/2000
ISSUE DATE:

MARY BENTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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Form PTO-1595
(Rev. 03/01)
OMB No. 0651-0027 (exp. 5/31/2002)



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U.S. Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
John Polo, Catherine Greer,
Maria Calderon-Cacia, Dan del la Vega,
Jr., Thomas Dubensky, Jr., and
Barbara Belli

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: 11/02/00, 11/07/00, 09/04/01
06/28/01, and 09/30/01

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

60/208,376

Additional numbers attached? Yes No

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account
any deficiencies

8. Deposit account number: 03-1664

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Anne S. Dollard, Reg. No. 43,925

Name of Person Signing

Signature

October 4, 2001

Date

60208376
40.00

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Mail documents to be recorded with required cover sheet information to:
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Box Assignments

on this October 4, 2001.

By Anne S. Dollard

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PATENT

Atty. Docket No. 15900.001

ASSIGNMENT

WHEREAS, We, John Polo, Catherine Greer, Maria Calderon-Cacia, Dan Del La Vega, Jr., Thomas Dubensky, Jr., and Barbara Belli, hereinafter referred to as **ASSIGNORS**, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **METHOD FOR THE PURIFICATION OF ALPHAVIRUS REPLICON PARTICLES**

Date(s) of Execution: 11/07/00

Filing Date: May 31, 2000

Serial No: 60/208,376

WHEREAS, CHIRON CORPORATION, 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

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PATENT
Atty. Docket No. 15900.001

ASSIGNORS also agree that the U.S. application number may be entered above by **ASSIGNEE** or its agents upon designation of the application number by the U.S. Patent and Trademark Office.

ASSIGNORS further agree that they will, without charge to said **ASSIGNEE**, but at **ASSIGNEE'S** expense, cooperate with **ASSIGNEE** in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as **ASSIGNEE** lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said **ASSIGNEE**, or **ASSIGNEE'S** successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed their names to this assignment on the dates indicated below.

DATE _____

John Polo

DATE _____

Catherine Greer

DATE _____

Maria Calderon-Cacia

DATE 1107100

Dan Del La Vega, Jr.

Denice Mittelstaedt 11/17/100 (Denice Mittelstaedt)
Witness Signature

DATE _____

Thomas Dubensky, Jr.

Witness Signature

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Atty. Docket No. 15900.001

DATE _____

Barbara Belli

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Title of Invention: **METHOD FOR THE PURIFICATION OF ALPHAVIRUS REPLICON PARTICLES**

Date(s) of Execution: 11/02/00 and 09/04/01 Filing Date: May 31, 2000

Serial No: 60/208,376

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IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed their names to this assignment on the dates indicated below.

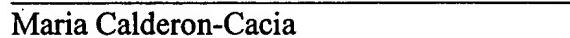
DATE 11/2/00


John Polo

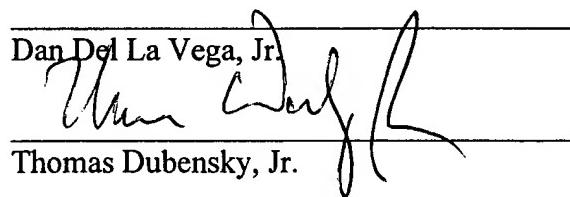
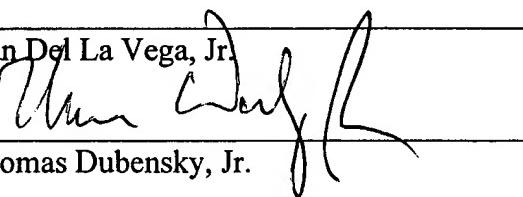
DATE 11/2/00


Catherine Greer

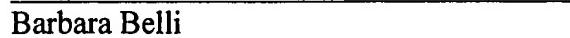
DATE _____


Maria Calderon-Cacia

DATE _____


Dan Del La Vega, Jr.

Thomas Dubensky, Jr.

DATE _____


Barbara Belli

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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Alameda

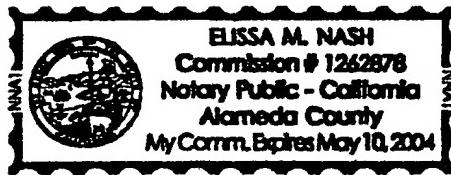
On November 2, 2000 before me, Elissa M. Nash

Date _____ **Name and Title of Officer (e.g., "Jane Doe, Notary Public")**

personally appeared John Polo and Catherine Greer -----.

Jane Greer -----

personally known to me - OR - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Signature of Notary Public

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Description of Attached Document

Title or Type of Document: Assignment for Case No. 15900.001

Document Date: _____ **Number of Pages:** _____

Signer(s) Other Than Named Above: Maria Calderon-Cacia, Dan Del La Vega, Jr.,
Thomas Dubensky, Jr., and Barbara Belli

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

Signer's Name: _____

- | | |
|--|----------------------------------|
| <input type="checkbox"/> Individual | |
| <input type="checkbox"/> Corporate Officer | |
| Title(s): _____ | |
| <input type="checkbox"/> Partner — <input type="checkbox"/> Limited | <input type="checkbox"/> General |
| <input type="checkbox"/> Attorney-in-Fact | |
| <input type="checkbox"/> Trustee | |
| <input type="checkbox"/> Guardian or Conservator | |
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<input type="checkbox"/> Individual	
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<input type="checkbox"/> Partner — <input type="checkbox"/> Limited	<input type="checkbox"/> General
<input type="checkbox"/> Attorney-in-Fact	
<input type="checkbox"/> Trustee	
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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Contra Costa

} ss.

On Sept. 4, 2001, before me, Elissa M. Nash,

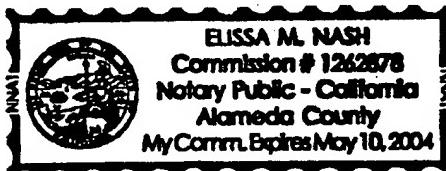
Date

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Thomas Dubensky, Jr.,

Name(s) of Signer(s)

- personally known to me
 proved to me on the basis of satisfactory evidence



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to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

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Capacity(ies) Claimed by Signer

Signer's Name: _____

- Individual
 Corporate Officer — Title(s): _____
 Partner — Limited General
 Attorney in Fact
 Trustee
 Guardian or Conservator
 Other: _____

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OF SIGNER

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Signer Is Representing: _____

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PATENT

Atty. Docket No. 15900.001

ASSIGNMENT

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Title of Invention: METHOD FOR THE PURIFICATION OF ALPHAVIRUS REPLICON PARTICLES

Date(s) of Execution: 06/28/01

Filing Date: May 31, 2000

Serial No: 60/208,376

WHEREAS, CHIRON CORPORATION, 4560 Horton Street, Emeryville, California 94608-2916, a corporation of the State of Delaware, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions (including conversions claiming priority under 35 U.S.C. §119(e)), reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

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IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed their names to this assignment on the dates indicated below.

DATE _____

John Polo

DATE _____

Catherine Greer

DATE 6/28/01

Maria Calderon-Cacia
Maria Calderon-Cacia

DATE _____

Dan Del La Vega, Jr.

DATE _____

Thomas Dubensky, Jr.

DATE _____

Barbara Belli
Barbara Belli

David Harriman
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CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Alameda

} ss.

On June 28, 2001, before me, Elissa M. Nash

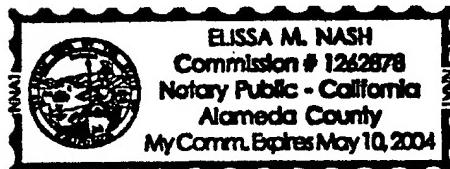
Date

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Maria Calderon-Cacia

Name(s) of Signer(s)

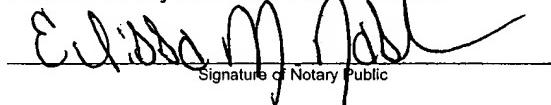
- personally known to me
 proved to me on the basis of satisfactory evidence



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to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

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Barbara Belli

Daryl Hamman

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